

Weekly Report

12/21/2015-12/27/2015

Work

This week, I attempt to complete computer architecture homework. I need read some papers[2, 4, 3, 1] and make a summary. But I need another several days to finish it. In addition, Dongyu introduce Mean.js which is a full-stack JavaScript solution based on MongoDB, Express, AngularJS, and Node.js. I think it is necessary to take Mean.js into consideration if we want to transfer our mobility pattern program into a web application.

Plan for next week

- Finish computer architecture homework
- Read paper: 空间数据可视化中的过滤

References

- [1] Neha Agarwal, David Nellans, Mike O'Connor, Stephen W Keckler, and Thomas F Wenisch. Unlocking bandwidth for gpus in cc-numa systems. In High Performance Computer Architecture (HPCA), 2015 IEEE 21st International Symposium on, pages 354 – 365. IEEE, 2015.
- [2] Marc S Orr, Bradford M Beckmann, Steven K Reinhardt, and David A Wood. Fine-grain task aggregation and coordination on gpus. In Proceeding of the 41st annual international symposium on Computer architecture, pages 181 – 192. IEEE Press, 2014.

- [3] Benjamin Welton, Evan Samanas, and Barton P Miller. Mr. scan: Extreme scale density-based clustering using a tree-based network of gpgpu nodes. In Proceedings of the International Conference on High Performance Computing, Networking, Storage and Analysis, page 84. ACM, 2013.
- [4] Gene Wu, Joseph L Greathouse, Alexander Lyshevsky, Nuwan Jayasena, and Derek Chiou. GPGPU performance and power estimation using machine learning. 2015 IEEE 21st International Symposium on High Performance Computer Architecture (HPCA), pages 564 – 576, 2015.